

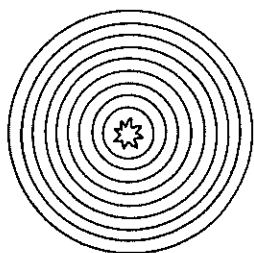
Let's Plot Something

- not a murder
- not a mystery
- let's plot the positions of the planets!



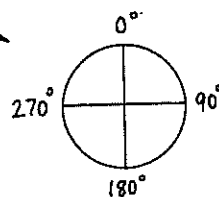
What you need:

- paper plate
- compass
- ruler and pencil
- protractor
- 18 adhesive spots

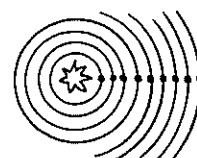


What you do:

- 1 Here's your problem to solve:
If all the planets were lined up today, where would they be in 3 months?
- 2 Now to solve this problem, divide a paper plate into quarters.
- 3 Draw a sun in the centre.
- 4 Use your compass to draw nine circles around the sun—the planets' orbits.



- 5 Stick nine small adhesive spots in a row on the lines (like the start of a race!).



- 6 Mark in 0°, 90°, 180° and 270° around the edge of the plate at each quarter point.

Write the initial for the planet's name on each spot.

- 7 Now we'll plot each planet's position 3 months from today. To do this, lie the flat edge of the protractor along the 0 to 180° line. Stick a spot in each planet's position as listed on this table. Don't forget to label the spots.

Planet	Me	V	E	Ma	J	S	U	N	P
Today	0°	0°	0°	0°	0°	0°	0°	0°	0°
In 3 mths	360°	144°	90°	45°	7°	3°	1°	$\frac{1}{2}^{\circ}$	$\frac{3}{100}^{\circ}$



Million Dollar Questions

- 1 Which planet will be the first to make one complete revolution?

And last? _____

- 2 Can you tell which planet moves the fastest? _____

Explain your answer on the back of this page.

Science Skill: Collecting and recording data

Pluto is now a Dwarf planet!